P/ FNT COOPERATION TREAT

Fr m the INTERNATIONAL BUREAU

PCT

NOTIFICATION OF ELECTION

(PCT Rule 61.2)

Commission r **US Department of Commerce United States Patent and Trademark** Office, PCT 2011 South Clark Place Room

CP2/5C24

Arlington, VA 22202 **ETATS-UNIS D'AMERIQUE**

Date of mailing (day/month/year) 10 November 2000 (10.11.00)	ETATS-UNIS D'AMERIQUE in its capacity as elected Office
International application No. PCT/JP00/01540	Applicant's or agent's file reference 00/06247
International filing date (day/month/year) 14 March 2000 (14.03.00)	Priority date (day/month/year) 26 March 1999 (26.03.99)
Applicant KONDO, Makoto	

1.	The designated Office is hereby notified of its election made:
	In the demand filed with the International Preliminary Examining Authority on:
	18 October 2000 (18.10.00)
	in a notice effecting later election filed with the International Bureau on:
2.	The election X was
	was not
	made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Authorized officer

Antonia Muller

Telephone No.: (41-22) 338.83.38

Facsimile No.: (41-22) 740.14.35





PATENT COOPERATION TREATY				
PCT				
INTERNATIONAL PRELIMINARY EXAMINATION REPORT				
anslation interna		36 and Rule 70)	To the Stan	
Applicant's or agent's file reference 00/06247	FOR FURTHER AC		cationofTransmittalofInternational Preliminary on Report (Form PCT/IPEA/416)	
International application No. PCT/JP00/01540	International filing date 14 March 200			
International Patent Classification (IPC) of H01L 21/027, G03F 7/20, 1/0		d IPC		
Applicant	NIKON COR	PORATION		
and is transmitted to the applican	t according to Article 36.		rnational Preliminary Examining Authority	
2. This REPORT consists of a total of				
3. This report contains indications re	elating to the following iter	ns:		
1 Basis of the repor	rt			
II Priority				
III Non-establishmer	nt of opinion with regard to	novelty, inventive s	step and industrial applicability	
IV Lack of unity of i				
V Reasoned stateme citations and expl	ent under Article 35(2) with lanations supporting such s	i regard to novelty, i tatement	inventive step or industrial applicability;	
VI Certain document	ts cited			
VII Certain defects in the international application				
VIII Certain observation	ons on the international app	olication		
Date of submission of the demand		Date of completion	of this report	
18 October 2000 (18	3.10.00)	26	5 June 2001 (26.06.2001)	
Name and mailing address of the IPEA/JF)	Authorized officer		
Facsimile No		Telephone No		

International application No.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

PCT/JP00/01540

1.	Basis	s of the report	
1.	With	regard to the elements of the international application	ation:*
j	\boxtimes	the international application as originally filed	
		the description:	
1		pages	, as originally filed
1		pages	
		pages	, filed with the letter of
l	\Box	the claims:	
	ш	nages	, as originally filed
			, as amended (together with any statement under Article 19
			, filed with the demand
		pages	, filed with the letter of
١,	$\overline{}$, med with the feller of
'		the drawings:	
		pages	, as originally filed
			, filed with the demand
١.		pages	, filed with the letter of
	ال	the sequence listing part of the description:	
		pages	, as originally filed
			, filed with the demand
			, filed with the letter of
[the ir	nternational application was filed, unless otherwise elements were available or furnished to this Auth the language of a translation furnished for the put the language of publication of the international a	ority in the following language which is: rposes of international search (under Rule 23.1(b)).
3.	With prelic	n regard to any nucleotide and/or amino aci minary examination was carried out on the basis or	I sequence disclosed in the international application, the international the sequence listing:
	닏	contained in the international application in writ	en form.
	\sqcup	filed together with the international application i	n computer readable form.
	Ц	furnished subsequently to this Authority in writte	en form.
		furnished subsequently to this Authority in comp	uter readable form.
		The statement that the subsequently furnished international application as filed has been furnished.	d written sequence listing does not go beyond the disclosure in the ned.
		The statement that the information recorded in been furnished.	computer readable form is identical to the written sequence listing has
4.		The amendments have resulted in the cancellatio	n of:
		the description, pages	
		the claims, Nos.	
		the drawings, sheets/fig	
5.			he amendments had not been made, since they have been considered to go
i	in thi	acement sheets which have been furnished to the re is report as "originally filed" and are not and 10.17).	eceiving Office in response to an invitation under Article 14 are referred to exed to this report since they do not contain amendments (Rule 70.16
** /	Any r	eplacement sheet containing such amendments mu	st be referred to under item 1 and annexed to this report.

PCT/JP00/01540

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

atement			
Novelty (N)	Claims	1-27	YE
	Claims		NO.
Inventive step (IS)	Claims	1-27	YE
	Claims		NC NC
Industrial applicability (IA)	Claims	1-27	YE
	Claims		NO

2. Citations and explanations

Claims 1-27

In an exposure method in which a plurality of patterns is stitched together and exposed on a substrate in order to expose on the substrate a pattern that is larger than the aforesaid individual patterns, when mutually overlapping and exposing four patterns in a region where four individual patterns are adjacent, determining the exposure amount of each pattern's corners based on a characteristic that is the product of a first characteristic gradually decreasing along a first direction at the outside and a second characteristic gradually decreasing along a second direction at the outside is not described in any of the documents cited in the ISR and appears to be non-obvious to a person skilled in the art.

特許協力条約

PCT

国際調査報告

(法8条、法施行規則第40、41条) [PCT18条、PCT規則43、44]

出願人又は代理人 の書類記号 00/06247	今後の手続きについては、国際調査報告の送付通知様式(PCT/ISA/220) 及び下記5を参照すること。				
国際出願番号 PCT/JP00/01540	国際出願日 (日.月.年) 14.03.00 優 先日 (日.月.年) 26.03.99				
出願人 (氏名又は名称) 株式会社ニニ	ュン				
国際調査機関が作成したこの国際調3 この写しは国際事務局にも送付される	查報告を法施行規則第41条(PCT18条)の規定に従い出願人に送付する。 る。				
この国際調査報告は、全部で3	<i>ページ</i> である。				
この調査報告に引用された先行打	支術文献の写しも添付されている。 				
1. 国際調査報告の基礎 a. 言語は、下記に示す場合を除ぐ この国際調査機関に提出さ	くほか、この国際出願がされたものに基づき国際調査を行った。 れた国際出願の翻訳文に基づき国際調査を行った。				
b. この国際出願は、ヌクレオチ この国際出願に含まれる書	ド又はアミノ酸配列を含んでおり、次の配列表に基づき国際調査を行った。 面による配列表				
□ この国際出願と共に提出さ	れたフレキシブルディスクによる配列表				
出願後に、この国際調査機	□ 出願後に、この国際調査機関に提出された書面による配列表				
□ 出願後に、この国際調査機関に提出されたフレキシブルディスクによる配列表					
□ 出願後に、この自然の登録は、これでは、これでは、これでは、これでは、これでは、これでは、これでは、これで					
■ 書面による配列表に記載した配列とフレキシブルディスクによる配列表に記録した配列が同一である旨の陳述書の提出があった。					
2. 請求の範囲の一部の調査な	ができない(第 I 欄参照)。				
3. 発明の単一性が欠如してい	いる(第Ⅱ欄参照)。				
4. 発明の名称は 🛛 出版	頭人が提出したものを承認する。				
□ 次1	こ示すように国際調査機関が作成した。				
_					
	頭人が提出したものを承認する。				
国際	II欄に示されているように、法施行規則第47条(PCT規則38.2(b))の規定により 祭調査機関が作成した。出願人は、この国際調査報告の発送の日から1カ月以内にこ 国際調査機関に意見を提出することができる。				
6. 要約書とともに公表される図は、 第 5 図とする。 図 出版	顔人が示したとおりである。				
	頼人は図を示さなかった。				
本[図は発明の特徴を一層よく表している。				

A.	発明の属する分野の分類	(国際特許分類	(IPC))
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Int. Cl' H01L21/027, G03F7/20, G03F1/08

B. 調査を行った分野

調査を行った最小限資料(国際特許分類(IPC))

Int. Cl' H01L21/027, G03F7/20, G03F1/08

最小限資料以外の資料で調査を行った分野に含まれるもの

日本国実用新案公報

1926-1996年

日本国公開実用新案公報

1971-2000年

日本国登録実用新案公報

1994-2000年

日本国実用新案登録公報

1996-2000年

国際調査で使用した電子データベース (データベースの名称、調査に使用した用語) WPI/L

C. 関連する	C. 関連すると認められる文献		
引用文献の		関連する	
カテゴリー*	引用文献名 及び一部の箇所が関連するときは、その関連する箇所の表示	請求の範囲の番号	
A	JP, 10-256140, A (キャノン株式会社) 25. 9月. 1998 (25. 09. 98) [0013]-[0020] (ファミリーなし)	1-27	
A	JP, 7-235466, A (株式会社ニコン) 5.9月.1995 (05.09.95) [0018]-[0023] (ファミリーなし)	1-27	

X C欄の続きにも文献が列挙されている。

パテントファミリーに関する別紙を参照。

* 引用文献のカテゴリー

- 「A」特に関連のある文献ではなく、一般的技術水準を示す もの
- 「E」国際出願日前の出願または特許であるが、国際出願日 以後に公表されたもの
- 「L」優先権主張に疑義を提起する文献又は他の文献の発行 日若しくは他の特別な理由を確立するために引用する 文献 (理由を付す)
- 「O」ロ頭による開示、使用、展示等に言及する文献
- 「P」国際出願日前で、かつ優先権の主張の基礎となる出願

の日の後に公表された文献

- 「T」国際出願日又は優先日後に公表された文献であって て出願と矛盾するものではなく、発明の原理又は理 論の理解のために引用するもの
- 「X」特に関連のある文献であって、当該文献のみで発明 の新規性又は進歩性がないと考えられるもの
- 「Y」特に関連のある文献であって、当該文献と他の1以 上の文献との、当業者にとって自明である組合せに よって進歩性がないと考えられるもの
- 「&」同一パテントファミリー文献

国際調査を完了した日 06.06.00 国際調査報告の発送日 20.06.00 国際調査機関の名称及びあて先 日本国特許庁 (ISA/JP) 報便番号100-8915 東京都千代田区霞が関三丁目4番3号 電話番号 03-3581-1101 内線 3274

国際調査報

C(続き).	関連すると認められる文献	
引用文献の カテゴリー*	引用文献名・及び一部の箇所が関連するときは、その関連する箇所の表示	関連する 請求の範囲の番号
A A	US, 5486896, A (Nikon Corpration) 23. 1月. 1996 (23. 01. 96) Page.1 & JP, 6-349711, A 第1頁	1-27
A	JP, 7-135166, A (株式会社ニコン) 23.5月.1995 (23.05.95) [0008]-[0010] (ファミリーなし)	1-27
	*	

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0	For receiving Office use only	<u> </u>
0-1	International Application No.	
0-2	International Filing Date	
0-3	Name of receiving Office and "PCT International Application"	
0-4	Form - PCT/RO/101 PCT Request	1
0-4-1	Prepared using	PCT-EASY Version 2.91
		(updated 01.01.2001)
0-5	Petition	(4)44254 01.01.2001/
	The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty	
0-6	Receiving Office (specified by the applicant)	Japanese Patent Office (RO/JP)
0-7	Applicant's or agent's file reference	00/06247
T	Title of invention	EXPOSURE METHOD AND APPARATUS
11	Applicant	
11-1	This person is:	applicant only
II-2	Applicant for	all designated States except US
11-4	Name	NIKON CORPORATION
11-5	Address:	Fuji Bldg., 2-3, Marunouchi 3-chome Chiyoda-ku, Tokyo 100-8331 Japan
11-6	State of nationality	JP
11-7	State of residence	JP
11-8	Telephone No.	03-3773-7011
11-9	Facsimile No.	03-3777-6659
111-1	Applicant and/or inventor	
III-1-1	This person is:	applicant and inventor
III-1-2	Applicant for	US only
III-1-4	Name (LAST, First)	KONDO, Makoto
HI-1-5	Address:	c/o Nikon Corporation, Intellectual
		Property Department Fuji Bldg., 2-3, Marunouchi 3-chome Chiyoda-ku, Tokyo 100-8331 Japan
III-1-6	State of nationality	JP
III-1-7	State of residence	JP

IV-1	Agent or comm in representative; in address for correspondence	
	The person identified below is hereby/has been appointed to act on behalf of the applicant(s) before the competent International Authorities as:	agent
IV-1-1	Name (LAST, First)	OMORI, Satoshi
IV-1-2	Address:	Omori Patent Office
		2075-2-501, Noborito, Tama-ku
		Kawasaki-shi, Kanagawa 214-0014
		Japan
IV-1-3	Telephone No.	044-900-8346
IV-1-4	Facsimile No.	044-911-0012
IV-1-5	e-mail	o-pat@bekkoame.ne.jp
V	Designation of States	
V-1	Regional Patent (other kinds of protection or treatment, if any, are specified between parentheses after the designation(s) concerned)	AP: GH GM KE LS MW SD SL SZ TZ UG ZW and any other State which is a Contracting State of the Harare Protocol and of the PCT (except MZ) EA: AM AZ BY KG KZ MD RU TJ TM and any other State which is a Contracting State of the Eurasian Patent Convention and of the PCT EP: AT BE CH&LI CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE and any other State which is a Contracting State of the European Patent Convention and of the PCT (except TR) OA: BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG and any other State which is a member State of OAPI and a Contracting State of the PCT
V-2	National Patent (other kinds of protection or treatment, if any, are specified between parentheses after the designation(s) concerned)	AE AL AM AT AU AZ BA BB BG BR BY CA CH&LI CN CR CU CZ DE DK DM EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

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V-5	Precautionary Designation Statement		
1	In addition to the designations made		
1	under items V-1, V-2 and V-3, the		
	applicant also makes under Rule 4.9(b)		
	all designations which would be permitted under the PCT except any		
	designation(s) of the State(s) indicated		
	under item V-6 below. The applicant		
	declares that those additional		
	designations are subject to confirmation		
	and that any designation which is not confirmed before the expiration of 15		
	months from the priority date is to be		
1	regarded as withdrawn by the applicant		
	at the expiration of that time limit.		
V-6	Exclusion(s) from precautionary designations	NONE	
VI-1	Priority claim of earlier national		
VI-1-1	application Filing date		
	•	26 March 1999 (26.03	.1999)
VI-1-2	Number	11-83178	
VI-1-3	Country	JP	
VI-2	Priority document request		
	The receiving Office is requested to	VI-1	
	prepare and transmit to the International Bureau a certified copy of		·
	the earlier application(s) identified		
	above as item(s):		
VII-1	International Searching Authority Chosen	Japanese Patent Office (JPO) (ISA/JP)	
VIII	Check list	number of sheets	electronic file(s) attached
VIII-1	Request	4	-
VIII-2	Description	34	-
VIII-3	Claims	7	-
VIII-4	Abstract	1	-
VIII-5	Drawings	6	-
VIII-7	TOTAL	52	
	Accompanying items	paper document(s) attached	electronic file(s) attached
VIII-8 [Fee calculation sheet	✓	_
	PCT-EASY diskette	-	diskette
	Figure of the drawings which should accompany the abstract	5	
	Language of filing of the international application	Japanese	
	Signature of applicant or agent		
IX	or approach or agoin		
	Name (LAST, First)		

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10-1	Date of actual receipt of the	
	purported internati nal application	

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10-2	Drawings:	
10-2-1	Received	
10-2-2	Not received	
10-3	Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application	
10-4	Date of timely receipt of the required corrections under PCT Article 11(2)	
10-5	International Searching Authority	ISA/JP
10-6	Transmittal of search copy delayed until search fee is paid	

FOR INTERNATIONAL BUREAU USE ONLY

11-1	Date of receipt of the record copy by	
	the International Bureau	